The Electric Vise.

The Capital Machine Tool Company, Weedsport, N. Y., are offering the trade a line of vises, represented by the machinist's swivel-bottom iron-workers' vise, shown in Fig. 1, the construction of which is given in detail in Fig. 2. The vise is of the rapid transit pattern, and requires, it is stated, only one movement in and out, one turn of the hand, to secure the work. The manufacturers remark that the vise is strengthened in parts subjected to wear and strain to prevent the breaking and wearing out of the mechanism in the engaging parts. An anvil is made on the back and top part of the vise, and the vise body reaches across full width to allow for a large range of work. The adjustable jaw is shown in Fig. 3, which is referred to as being well made and tempered. These are furnished either checked or smooth. The pipe chuck attachment, Fig. 4, is made of solid steel, one set of the jaws being fitted rough and the other set made smooth for finished work. The advantages claimed for this arrangement of chuck in connection with this vise are that it is quick and easily swiveled to any angle for long or short work; that it holds the work firm and steady without crushing; that the work is instantly placed in the vise jaws or taken out, avoiding the use of set screws or taper pins, and that it is a durable device for holding long or short pipes, rods or bolts. The chucks are made in ten sizes to hold pipes, &c., from 0 to 6 inches. At present only one size of vise is ready, this being No. 15, weighing 45 pounds, but in a short time the manufacturers expect to have nine different sizes on the market.

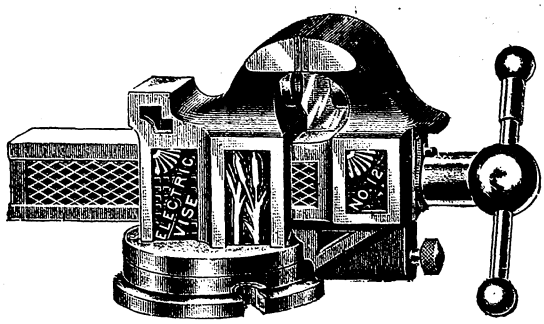

Fig. 1.—The Electric Vise.

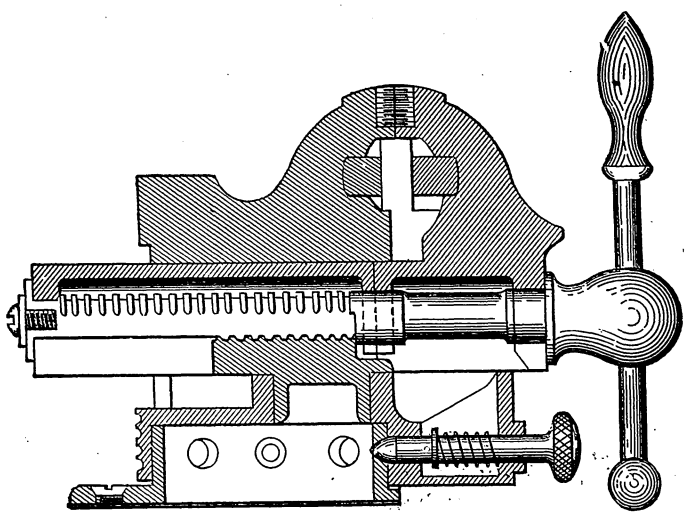

Fig. 2.—Electric Vise in Detail.

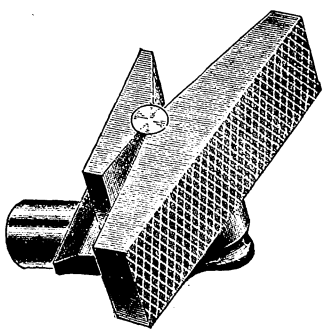

Fig. 3.—Adjustable Steel Jaw Attachments.

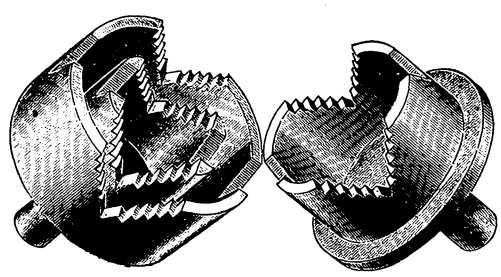

Fig. 4.—Little Giant Pipe Chuck.

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